SERVICE: GEOTECHNICAL ENGINEERING _004

Investigate on-site soil and rock properties and make recommendations on the use of those materials for structures normally associated with pavement design and flood control improvements.

Minimum Qualifications

FIRM EXPERIENCE

- Minimum of one, up to five, geotechnical engineering projects administered by the firm in the last six years.

Geotechnical Testing Capability

- Firms must submit the Geotechnical and Materials Testing List of Tests and Procedures *Questionnaire. ***Questionnaire file has a worksheet with instructions.***
- Identify and list specific accreditations achieved by the firm or the laboratory.
- All tests and procedures shall be performed in accordance with standard AASHTO / ASTM methods, where applicable.
- The laboratory shall be resource (formerly AMRL) or CMEC R-18 AASHTO accredited that include the following appropriate requirements: ASTM D3666, ASTM D3740, and ASTM C1077.
- The laboratory shall be AASHTO accredited for each individual test method performed. The accreditation shall be current at the time of submittal and at the time actual testing is performed.

EMPLOYEE EXPERIENCE

Category A: Nevada Professional Engineer on staff and in responsible charge of the work. **Non-staff engineers are prohibited.**

- Geotechnical engineering - minimum experience of three years and three geotechnical engineering projects successfully completed in this service.

Category B: Engineering support staff

- Bachelor's Degree in Engineering or 5 years of experience on transportation/flood control projects.
- Minimum of three geotechnical engineering projects

Category B employee certifications:

All laboratory and field technicians shall be certified (where applicable) under Nevada Alliance for Quality Transportation Construction (NAQTC) including the extended modules for Marshall mix design. This program includes ACI certification for concrete field sampling and laboratory concrete breaks. Indicate on the resume the modules for each technician and/or engineer.

In general, a professional engineer license cannot be a substitute for a NAQTC certification, however, for geotechnical exploratory drilling, the acquisition of field samples does not require a NAQTC certified technician.